

## CLAIMS

- 5 1. A method for the exchange of data between controls of machines, particularly robots, wherein a first control produces an instruction to be transmitted with data to be sent to a second control and with an identification representing said second control, wherein the instruction to be trans-  
10 mitted is provided with an identification of the first control, wherein the first control sends the instruction to be transmitted to the second control, wherein the second control evaluates the data of the instruction and wherein the second control provides the first control with an acknow-  
15 ledgement.
2. The method according to claim 1, wherein the instruction to be transmitted is formatted as a UDP message.
- 20 3. The method according to claim 1, wherein the acknowledgement of the second control is formatted as a UDP message.
4. The method according to claim 1, wherein the second  
25 control compiles the data received to an internal code.
5. The method according to claim 1, wherein, if the data to be transmitted contain a control command, the second control executes the same.
- 30 6. The method according to claim 1, wherein the first control only transmits an instruction to be transmitted to a further control if it has received from the latter an acknowledgement to the effect that the second control is  
35 ready to perform an instruction.

7. The method according to claim 1, wherein the instruction to be transmitted can contain both the identification of the control in question and also the data to be transmitted as a constant or variable.

8. The method according to claim 1, wherein there are commands for the selection of a program on the second control (RUNProgName ()), resetting a program of the second control (RESET), cancellation of a program of the second control (CANCEL), value allocations and/or commands for waiting on Boolean values.

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